

1653

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/393,441

DATE: 10/23/2000  
TIME: 14:20:48

Input Set : A:\420c1.app  
Output Set: N:\CRF3\10232000\I393441.raw

ENTERED

4 <110> APPLICANT: Anderson, Christen M.  
5 Davis, Robert E.  
6 Clevenger, William  
7 Wiley, Sandra Eileen  
8 Willer, Scott W.  
9 Szabo, Tomas R.  
10 Ghosh, Soumitra S.  
11 Moos, Walter H.  
12 Pei, Yazhong  
14 <120> TITLE OF INVENTION: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),  
15 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR  
17 <130> FILE REFERENCE: 660088.420C1  
19 <140> CURRENT APPLICATION NUMBER: US 09/393,441  
20 <141> CURRENT FILING DATE: 1999-09-08  
22 <160> NUMBER OF SEQ ID NOS: 37  
24 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
26 <210> SEQ ID NO: 1  
27 <211> LENGTH: 894  
28 <212> TYPE: DNA  
29 <213> ORGANISM: Homo sapien  
31 <400> SEQUENCE: 1  
32 atgggtgatc acgcttgag cttcctaaag gacttcctgg ccggggcggt cgccgctgcc 60  
33 gtctccaaga ccgcggtcgc ccccatcgag aggggtcaaac tgctgctgca ggtccagcat 120  
34 gccagcaaac agatcagtgc tgagaagcag tacaaaggga tcattgattg tgtggtgaga 180  
35 atccctaagg agcagggctt cctctccttc tggaggggta acctggccaa cgtgatccgt 240  
36 tacttcccca cccaagctct caacttcgcc ttcaaaggaca agtacaagca gctcttctta 300  
37 gggggtgtgg atcggcataa gcagttctgg cgctactttg ctggtaacct ggcgtccggt 360  
38 ggggcccgtg gggccacctc cctttgtttt gtctaccgcg tggactttgc taggaccagg 420  
39 ttggctgctg atgtgggcag gcgcgcccag cgtgagttcc atggctctgg cgactgtatc 480  
40 atcaagatct tcaagtctga tggcctgagg gggctctacc agggtttcaa cgtctctgtc 540  
41 caaggcatca ttatctatag agctgcctac ttccgagttc atgatactgc caaggggatg 600  
42 ctgcctgacc ccaagaacgt gcacattttt gtgagctgga tgattgcccc gagtgtgacg 660  
43 gcagtcgcag ggctgctgtc ctaccccttt gacactgttc gtcgtagaat gatgatgcag 720  
44 tccggccgga aaggggcccga tattatgtac acggggacag ttgactgctg gaggaagatt 780  
45 gcaaaaagacg aaggagccaa ggccttcttc aaaggtgcct ggtccaatgt gctgagaggg 840  
46 atgggcggtg cttttgtatt ggtgttgtat gatgagatca aaaaatatgt ctaa 894  
48 <210> SEQ ID NO: 2  
49 <211> LENGTH: 897  
50 <212> TYPE: DNA  
51 <213> ORGANISM: Homo sapien  
53 <400> SEQUENCE: 2  
54 atgacagatg ccgcatattg cttcgccaag gacttcctgg cagggtggagt ggccgcagcc 60  
55 atctccaaga ccgcggtagc gcccatcgag cgggtcaaag tgctgctgca ggtgcagcat 120  
56 gccagcaagc agatcactgc agataagcaa tacaaaggca ttatagactg cgtggtccgt 180  
57 attccaagg agcaggaagt tctgtccttc tggcgcggtg acctggccaa tgtcatcaga 240  
58 tacttcccca ccaggtctct taacttcgcc ttcaaagata aatacaagca gatcttcctg 300  
59 ggtggtgtgg acaagagaac ccagttttg cgctactttg cagggaatct ggcacgcggt 360

RAW SEQUENCE LISTING                      DATE: 10/23/2000  
 PATENT APPLICATION:    US/09/393,441        TIME: 14:20:48

Input Set : A:\420cl.app  
 Output Set: N:\CRF3\10232000\I393441.raw

```

60 ggtgccgcag gggccacatc cctgtgtttt gtgtaccctc ttgattttgc ccgtaccctt 420
61 ctagcagctg atgtgggtaa agctggagct gaaagggaat tccgaggcct cgttgactgc 480
62 ctggttaaga tctacaaatc tgatgggatt aagggcctgt accaaggctt taacgtgtct 540
63 gtgcagggta ttatcatcta ccgagccgcc tacttcggta tctatgacac tgcaaaggga 600
64 atgcttccgg atcccaagaa cactcacatc gtcatcagct ggatgatcgc acagactgtc 660
65 actgctgttg ccgggttgac ttctatcca tttgacaccg ttccgcccgc catgatgatg 720
66 cagtcaaggg gcaaaggaa tgacatcatg tacacaggca cgcttgactg ctggcggaag 780
67 attgctcgtg atgaaggagg caaagctttt ttcaagggtg catggtccaa tgttctcaga 840
68 ggcattgggt gtgcttttgt gcttgctctg tatgatgaaa tcaagaagta cacataa 897
70 <210> SEQ ID NO: 3
71 <211> LENGTH: 897
72 <212> TYPE: DNA
73 <213> ORGANISM: Homo sapien
75 <400> SEQUENCE: 3
76 atgacggaac aggccatctc cttcgccaaa gacttcttgg ccggaggcat cgcgcgccgc 60
77 atctccaaga cggccgtggc tccgatcgag cgggtcaagc tgctgctgca ggtccagcac 120
78 gccagcaagc agatcgccgc cgacaagcag tacaagggca tcgtggactg cattgtccgc 180
79 atccccaagg agcaggcgct gctgtccttc tggaggggca accttgccaa cgtcattcgc 240
80 tacttcccca ctcaagccct caacttcgcc ttcaaggata agtacaagca gatcttctg 300
81 gggggcgctg acaagcacac gcagtcttgg aggtactttg cgggcaacct ggcctccggc 360
82 ggtgcggccg gcgcgacctc cctctgcttc gtgtaccgcg tggattttgc cagaaccgcg 420
83 ctggcagcgg acgtgggaaa gtcaggcaca gagcgcgagt tccgaggcct gggagactgc 480
84 ctggtgaaga tcaccaagtc cgacggcatc cggggcctgt accaggcctt cagtgtctcc 540
85 gtgcagggca tcatcatcta ccgggcggcc tacttcggcg tgtacgatac ggccaagggc 600
86 atgctccccc accccaagaa cacgcacatc gtggtgagct ggatgatcgc gcagaccgtg 660
87 acggccgtgg ccggcggtgt gtctacccc ttcgacacgg tcgcgcgcg catgatgatg 720
88 cagtccgggc gcaaaggagc tgacatcatg tacacgggca ccgtcgactg ttggagggaag 780
89 atcttcagag atgagggggg caaggccttc ttcaagggtg cgtggtccaa cgtcctgcgg 840
90 ggcattgggg gcgccttcgt gctggtctcg tacgacgagc tcaagaaggt gatctaa 897
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 43
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: PCR Primer
100 <400> SEQUENCE: 4
101 ttatatctcg agtatgggtg atcacgcttg gagcttcccta aag 43
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 43
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: PCR Primer
111 <400> SEQUENCE: 5
112 tatataggtg ccttagacat attttttgat ctcatcatatc aac 43
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 43
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING                      DATE: 10/23/2000  
 PATENT APPLICATION: US/09/393,441        TIME: 14:20:48

Input Set : A:\420cl.app  
 Output Set: N:\CRF3\10232000\I393441.raw

```

119 <220> FEATURE:
120 <223> OTHER INFORMATION: PCR Primer
122 <400> SEQUENCE: 6
123   ttatatctcg agtatgacag atgccgctgt gtccttcgcc aag      43
125 <210> SEQ ID NO: 7
126 <211> LENGTH: 43
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: PCR Primer
133 <400> SEQUENCE: 7
134   tatataggta ccttatgtgt accttcttgat ttcatacatc aag      43
136 <210> SEQ ID NO: 8
137 <211> LENGTH: 43
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: PCR Primer
144 <400> SEQUENCE: 8
145   ttatatctcg agtatgacgg aacaggccat ctccttcgcc aaa      43
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 44
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: PCR Primer
155 <400> SEQUENCE: 9
156   tatataggta ccttagagtc accttcttga gtcgctcgta cagg      44
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 21
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Sequence primer
166 <400> SEQUENCE: 10
167   tatgccatag catttttata c      21
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 18
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Sequence primer
177 <400> SEQUENCE: 11
178   cgccaaaaca gccaaagct      18
180 <210> SEQ ID NO: 12
181 <211> LENGTH: 45
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:

```

RAW SEQUENCE LISTING                      DATE: 10/23/2000  
 PATENT APPLICATION: US/09/393,441        TIME: 14:20:48

Input Set : A:\420cl.app  
 Output Set: N:\CRF3\10232000\I393441.raw

```

186 <223> OTHER INFORMATION: Mutagenic oligonucleotide primer
188 <400> SEQUENCE: 12
189 ggagatggcc tgttccgtca tcttatcgtc atcgctgtac agatc          45
191 <210> SEQ ID NO: 13
192 <211> LENGTH: 45
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Mutagenic oligonucleotide primer
199 <400> SEQUENCE: 13
200 gatctgtacg acgatgacga taagatgacg gaacaggcca tctcc          45
202 <210> SEQ ID NO: 14
203 <211> LENGTH: 35
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: PCR primer
210 <400> SEQUENCE: 14
211 cccggggaat tctgatgacg gaacaggcca tctcc          35
213 <210> SEQ ID NO: 15
214 <211> LENGTH: 34
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: PCR primer
221 <400> SEQUENCE: 15
222 cccgggctcg agttagagtc accttcttga gctc          34
224 <210> SEQ ID NO: 16
225 <211> LENGTH: 41
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: PCR primer
232 <400> SEQUENCE: 16
233 ttataggatc catgacggaa caggccatct ccttcgccaa a          41
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 41
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: PCR primer
243 <400> SEQUENCE: 17
244 ttaaagaatt cttagatcac cttcttgagc tcgtcgtaca g          41
246 <210> SEQ ID NO: 18
247 <211> LENGTH: 18
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Sequencing primer

```

RAW SEQUENCE LISTING                      DATE: 10/23/2000  
 PATENT APPLICATION:    US/09/393,441        TIME: 14:20:48

Input Set : A:\420cl.app  
 Output Set: N:\CRF3\10232000\I393441.raw

```

254 <400> SEQUENCE: 18
255   aaatgataac catctcgc                               18
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 18
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Sequencing primer
265 <400> SEQUENCE: 19
266   acttcaagga gaatttcc                               18
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 18
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Sequencing primer
276 <400> SEQUENCE: 20
277   acttcgcctt cacggata                               18
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 18
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Sequencing primer
287 <400> SEQUENCE: 21
288   tacggccaag ggcattct                               18
290 <210> SEQ ID NO: 22
291 <211> LENGTH: 18
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Sequencing primer
298 <400> SEQUENCE: 22
299   tgaagcggaa gttcctat                               18
301 <210> SEQ ID NO: 23
302 <211> LENGTH: 18
303 <212> TYPE: DNA
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Sequencing primer
309 <400> SEQUENCE: 23
310   atgccgggtc ccgtacga                               18
312 <210> SEQ ID NO: 24
313 <211> LENGTH: 31
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Mutagenic oligonucleotide primer
320 <400> SEQUENCE: 24

```

VERIFICATION SUMMARY                      DATE: 10/23/2000  
PATENT APPLICATION:    US/09/393,441      TIME: 14:20:49  
  
Input Set : A:\420c1.app  
Output Set: N:\CRF3\10232000\I393441.raw